

**S**YSTEM **P**LANNING & **A**NALYSIS **R**eport

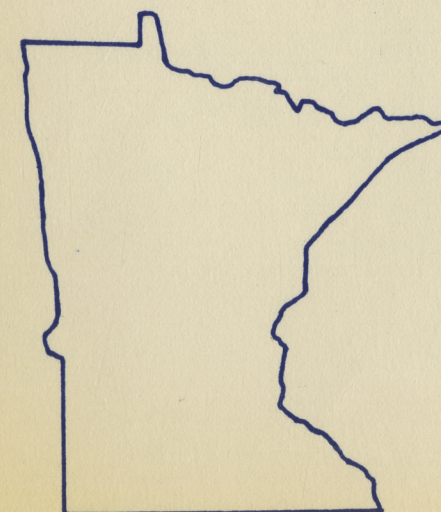
**S-53**

T. H. 35E  
W. 7TH STREET TO  
KELLOGG BOULEVARD

S. P. 6280

JULY, 1971

PREPARED BY  
**OFFICE OF SYSTEM PLANNING**



**MINNESOTA  
DEPARTMENT  
OF HIGHWAYS**



DEPARTMENT HIGHWAY - Statewide Planning -  
Room 807 - Extension 3158 -

## Office Memorandum

TO : Paul G. Velz  
Road Design Engineer

DATE: July 29, 1971

FROM : Morris Gildemeister, Chief  
Statewide Planning Section

SUBJECT: T.H. 35E, W. 7th Street to Kellogg Boulevard  
S.P. 6280  
System Planning & Analysis Report S-53

The Statewide Planning Section transmits this report in response to C. Michalko's December 24, 1970 request for the 1990 ADT, DHV, and HCADT for the project location shown on the map on page 2.

The estimated 1990 ADT volumes are shown on the map on page 3.

For each segment numbered on the map on page 3, the following data are tabulated on pages 4-8:

- (a) Total ADT
- (b) Vehicle Type Distribution
- (c) Total HCADT

Segment 6, with a 1990 one-way ADT of 34500, has the highest ADT on the project section of T.H. 35E.

The basic data, method, and assumptions used to prepare this report are presented on page 9.

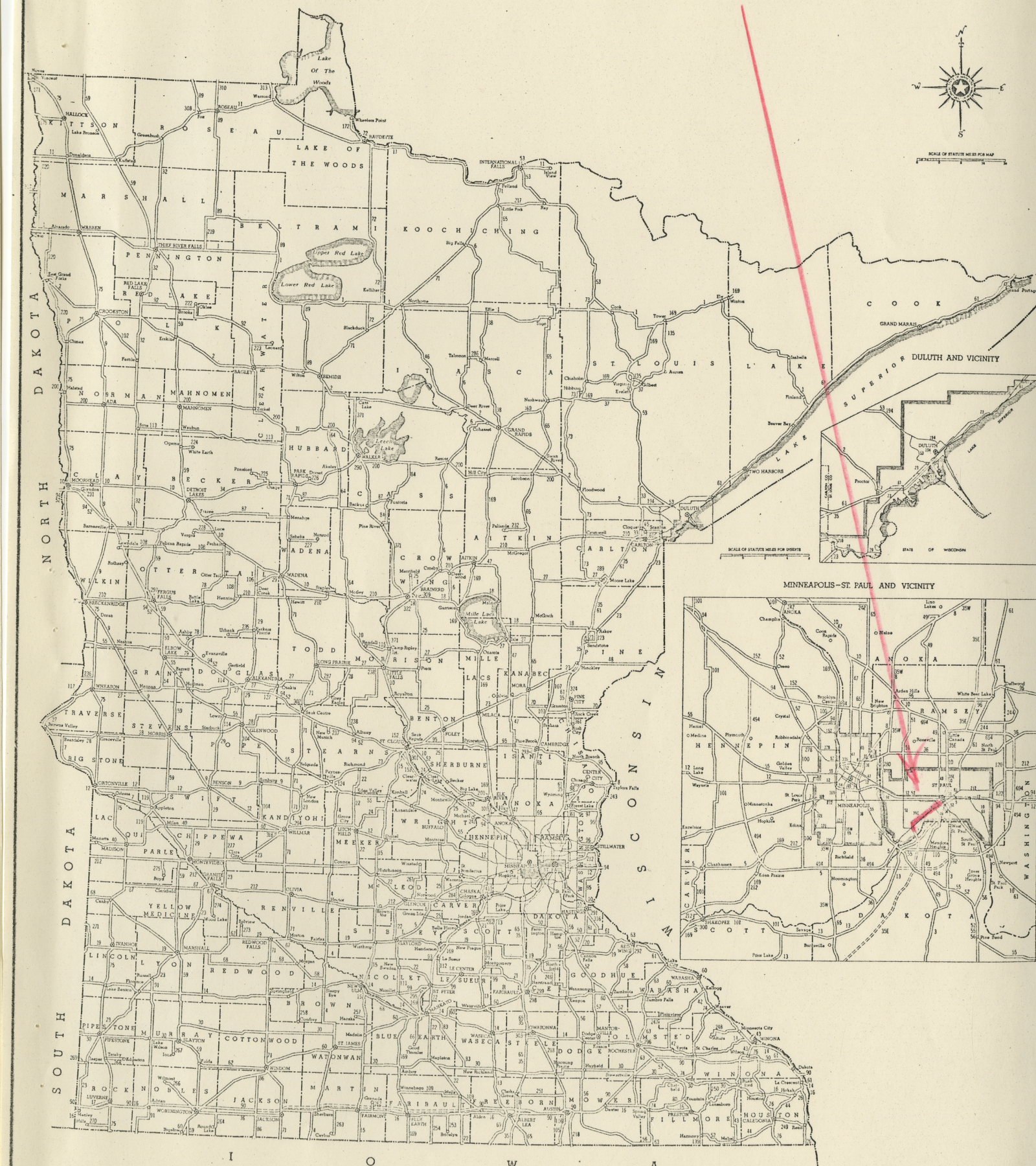
*Morris Gildemeister*

Morris Gildemeister, Chief  
Statewide Planning Section

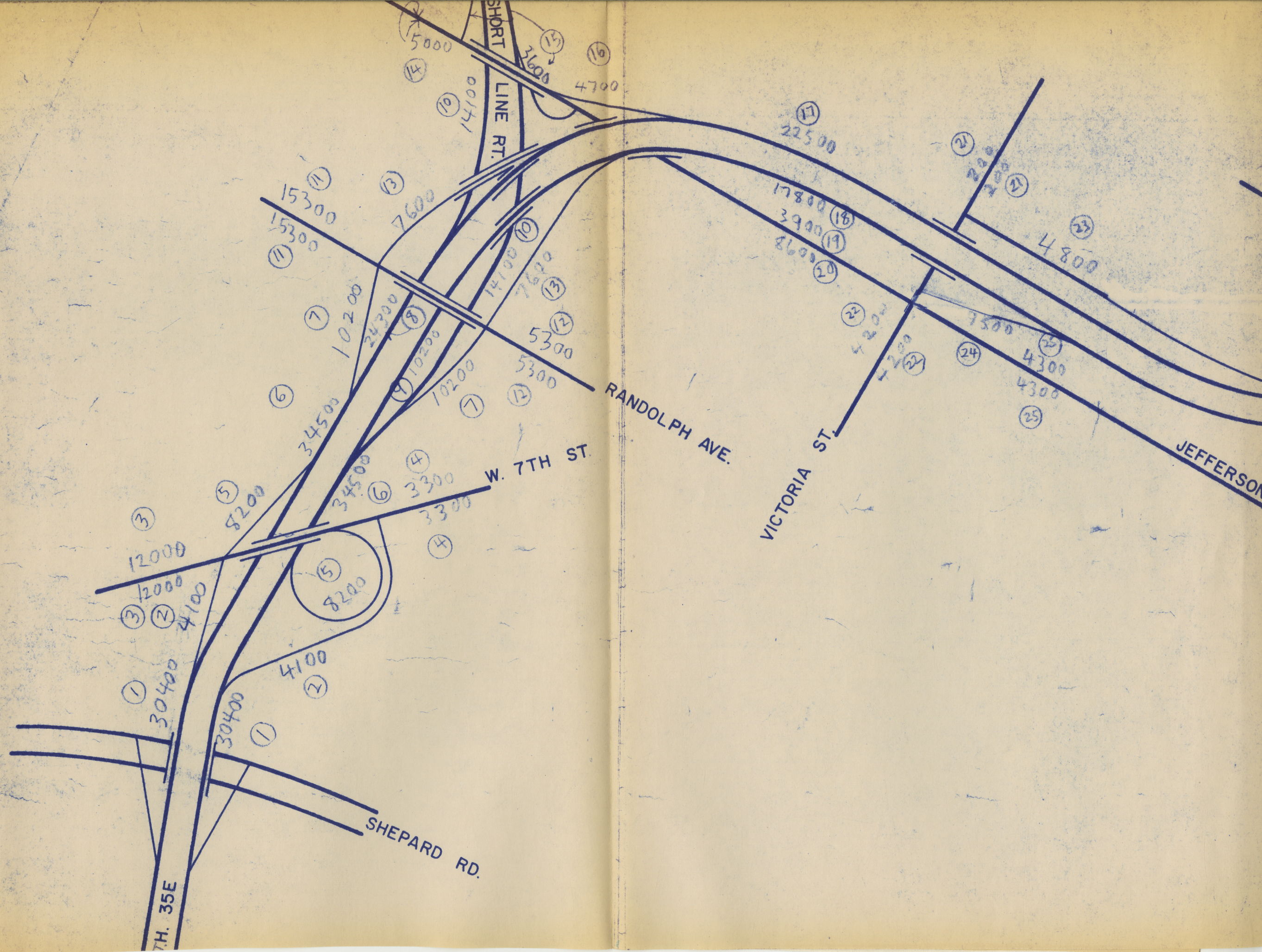
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STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS  
WORK MAP

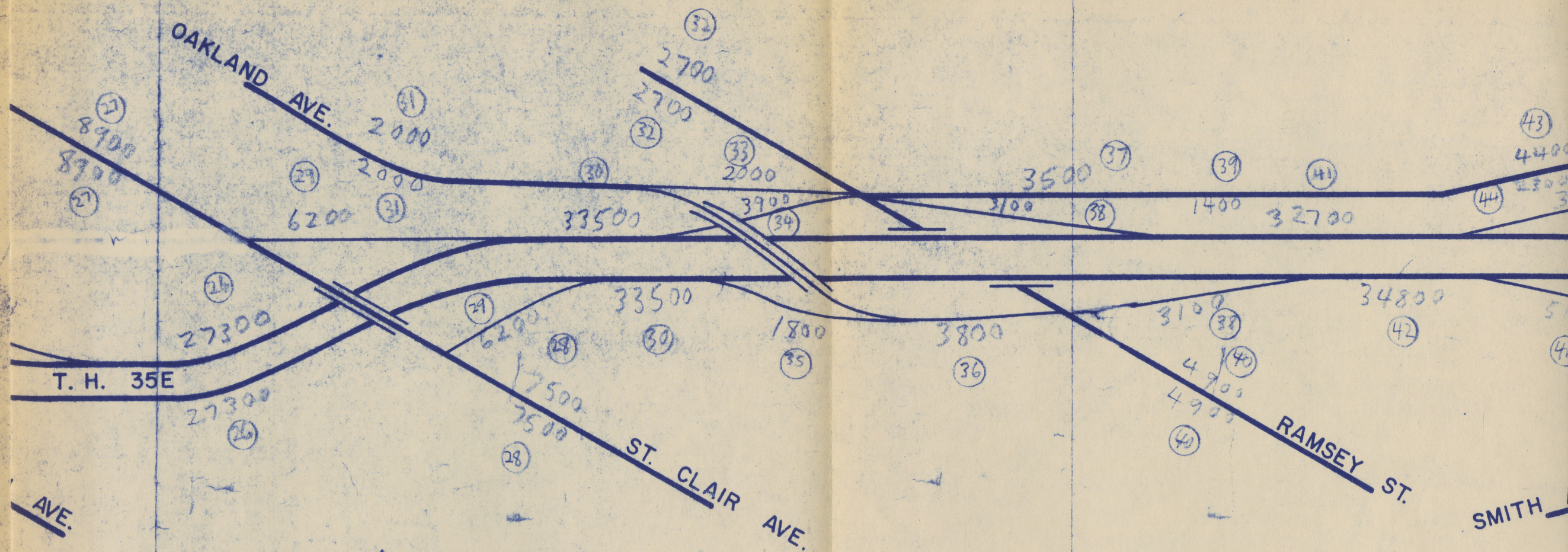
Project Location  
S.P. 6280











T.H. 35E  
MISSISSIPPI RIVER TO 9TH ST.  
AUGUST, 1967



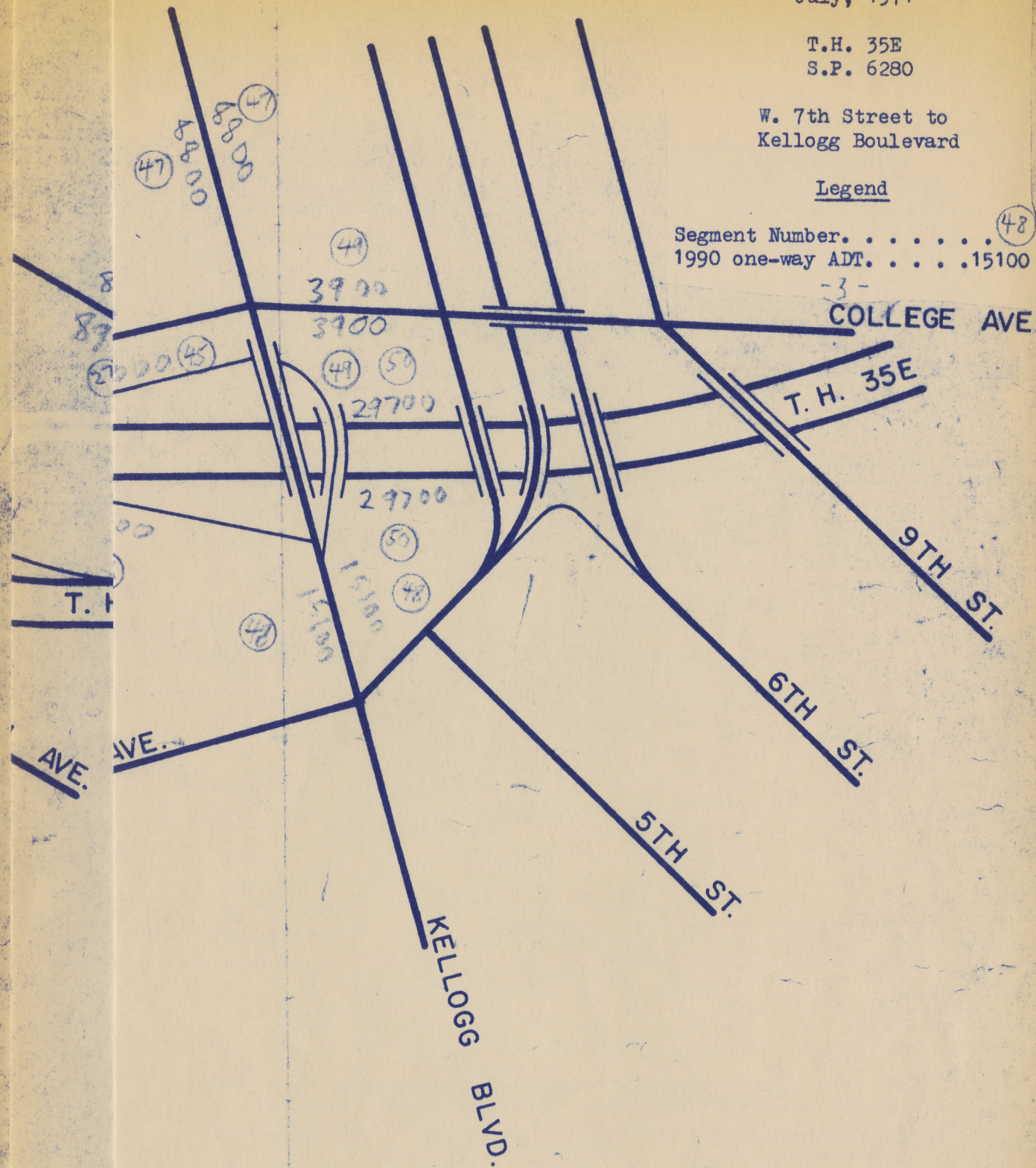
S-53  
July, 1971

T.H. 35E  
S.P. 6280

W. 7th Street to  
Kellogg Boulevard

Legend

Segment Number. . . . . (48)  
1990 one-way ADT. . . . . 15100



857 11836



## TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 1 OF 5

FOR

T.H. 35E S.P. 6280 LENGTH ----- MILES  
COUNTY Ramsey LOCATION W. 7th Street to Kellogg Blvd.

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS  
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	28692	3877	11194	3107	7554	32369	9449	22920	9581	13339	14073
1	477	57	210	49	171	591	236	355	165	190	385
2	396	27	99	23	81	450	177	273	145	128	289
3	81	11	41	9	34	104	30	74	34	40	49
4	114	17	63	15	51	148	46	102	70	32	76
5	464	94	346	82	280	650	231	419	89	330	376
6	176	17	47	15	29	188	31	157	116	41	52
TOTAL ADT	30400	4100	12000	3300	8200	34500	10200	24300	10200	14100	15300
TOTAL H. COMM. ADT	1708	223	806	193	646	2131	751	1380	619	761	1227
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

## \* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS  
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS  
 2 = SINGLE UNIT-3 AXLE TRUCKS  
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES  
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES  
 5 = TRACTOR-TRUCK OR SEM-TRAILER - 5 AXLES  
 6 = BUSES AND TRUCKS WITH TRAILERS

## TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 2 OF 5

FOR

T.H. 35E S.P. 6280 LENGTH ----- MILES  
COUNTY Ramsey LOCATION W. 7th Street to Kellogg Blvd.

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS  
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	4853	6959	4686	3433	4494	21034	16540	3628	8122	191	4016
1	141	199	200	41	64	428	364	176	240	5	99
2	106	149	46	28	48	342	294	26	74	2	27
3	18	25	10	9	9	68	59	9	18	-	6
4	28	39	13	7	12	121	109	7	19	-	6
5	138	194	32	73	63	346	283	41	104	1	37
6	16	35	13	9	10	161	151	13	23	1	9
TOTAL ADT	5300	7600	5000	3600	4700	22500	17800	3900	8600	200	4200
TOTAL H. COMM. ADT	447	641	314	167	206	1466	1260	272	478	9	184
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

## \* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS  
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS  
 2 = SINGLE UNIT-3 AXLE TRUCKS  
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES  
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES  
 5 = TRACTOR-TRUCK OR SEM-TRAILER - 5 AXLES  
 6 = BUSES AND TRUCKS WITH TRAILERS



## TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 3 OF 5

FOR

T.H. 35E S.P. 6280 LENGTH ----- MILES  
COUNTY Ramsey LOCATION W. 7th Street to Kellogg Blvd.

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS  
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	23	24	25	26	27	28	29	30	31	32	33
0	4590	9084	4087	25624	8412	7100	5810	31434	1856	2538	1856
1	136	200	121	564	296	232	281	845	76	113	76
2	20	68	27	362	30	24	28	390	5	7	5
3	7	16	8	75	15	12	15	90	4	6	4
4	5	17	7	126	6	4	7	133	1	3	1
5	32	95	40	378	36	28	34	412	4	6	4
6	10	20	10	171	105	100	25	196	54	27	54
TOTAL ADT	4800	9500	4300	27300	8900	7500	6200	33500	2000	2700	2000
TOTAL H. COMM. ADT	210	416	213	1676	483	400	390	2066	144	162	144
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

## \* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS      4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES  
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS      5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES  
 2 = SINGLE UNIT-3 AXLE TRUCKS              6 = BUSES AND TRUCKS WITH TRAILERS  
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES

## TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 4 OF 5

FOR

T.H. 35E S.P. 6280 LENGTH ----- MILES  
COUNTY Ramsey LOCATION W. 7th Street to Kellogg Blvd.

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 44 AS  
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	34	35	36	37	38	39	40	41	42	43	44
0	3619	1670	3526	3249	2914	1298	4606	30729	32678	4084	2135
1	148	68	144	132	130	53	205	827	907	165	85
2	9	4	9	9	8	4	13	389	394	11	6
3	8	4	8	7	7	3	11	89	93	9	5
4	3	2	3	2	3	1	5	133	134	3	2
5	8	3	7	7	7	3	11	411	416	9	4
6	105	49	103	94	31	38	49	122	178	119	63
TOTAL ADT	3900	1800	3800	3500	3100	1400	4900	32700	34800	4400	2300
TOTAL H. COMM. ADT	281	130	274	251	186	102	294	1971	2122	316	165
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

## \* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS      4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES  
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS      5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES  
 2 = SINGLE UNIT-3 AXLE TRUCKS              6 = BUSES AND TRUCKS WITH TRAILERS  
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES



TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 5 OF 5

FOR

T.H. 35E S.P. 6280 LENGTH ---- MILES

COUNTY Ramsey LOCATION W. 7th Street to Kellogg Blvd.

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 45 THROUGH 50 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	45	46	47	48	49	50					
0	2829	4778	8338	14270	3620	27900					
1	146	226	385	656	146	681					
2	5	10	16	29	10	384					
3	10	14	25	41	8	79					
4	2	3	5	9	3	131					
5	-	5	7	15	8	411					
6	8	64	24	80	105	114					
TOTAL ADT	3000	5100	8800	15100	3900	29700					
TOTAL H. COMM. ADT	171	322	462	830	280	1800					
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

\* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
- 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
- 2 = SINGLE UNIT-3 AXLE TRUCKS
- 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
- 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
- 6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method, and Assumptions

The 1990 ADT and DHV is presented in TAS 519-14 transmitted on October 16, 1967.

Total heavy commercial ADT agrees with System 14 computer truck study.

The vehicle type volumes are based on vehicle classification counts taken on roads with similar characteristics as the studied routes.